Iowa Department of Natural Resources UST Cathodic Protection Inspection Form

May 2001

Iowa UST Site Registration Number:	Date:						
	ed current Date Installed:						
Facility Information Facility Name:)n						
Address: City:	ZIP Code						
Tester Name:	Cester						
Company Name: Address:							
	Phone Number:						
Tester Qualifications/Training (567-Chapter 135 IAC, Definition							
)-						
If NACE Certified Provide Certification No.							
Weather Conditions:							
Temperature: Soil/Backfill Conditions (circle): n	noist dry sand gravel soil						
Minimum Inspection Requirem	nents Checklist						
 () Reviewed the cathodic protection system's design: location of tanks, lines, anodes, testing locations, and structure to soil potential readings. For impressed current systems include structure to soil native potential readings and rectifier amp and voltage settings. () Reviewed record of previous cathodic protection system inspection: tank to soil potential readings, test locations, and previous inspectors comments and observations. For impressed current systems, review the record for previous rectifier amp and voltage readings and record current readings. () Provided site diagram with testing locations properly marked. () Tested the system for electrical continuity: tanks, product lines, flex connectors, vent lines, conduit and other tank system equipment. () Conducted structure to soil potentials on all protected tanks, piping, and flex connectors. A minimum of three per tank along the center line, at the ends and middle. For each product line, tested above piping at the ends and middle (away from anode locations). Conducted additional tests on long piping runs. () For impressed current system, conducted structure to soil potentials for rectifier instant off readings. For polarization readings not meeting the -850 mV requirement, tested for 100 mV polarization decay. () For impressed current system, checked rectifier operation and current to anodes at any junction boxes in system. Asked owner if any physical changes have been made at site since installation. () Provided written explanation to the site owner on the cathodic protection systems operating status, recommendations, and any repairs and attached it to this form. 							
Cathodic Protection System Certification							
The cathodic protection system is operating according to its design protection to the tanks and product lines: [] Ves [] No	gn standards and is providing cathodic						

Date

Signature of Tester

Registration No	Facility Name:	
Sketch the facility below showent lines and dispenser islated to tanks for pumps, fill pipes tank identification. On the diagram identify ref	e Diagram owing tanks, piping, buildings, nds. Include all surface openings s, tank monitoring, etc. Provide erence cell test locations with an r (R1, R2, etc.). Do the same for '(S1, S2, etc.).	Minimum test locations for each tank & line. tank 1 2 3 Dispenser
possible and be in direct contential readings, soil or letc. directly above tank whaceess to soil or backfill mapiping. Do not take struct	ontact with the soil or backfill mat backfill may be accessed through on nen available. Permanent cathodic ay need to be established through ure to soil potential readings with	ce cell must be as close to the structure as terial around the tank and piping. For tank openings for pump risers, tank monitors, a protection monitoring stations providing concrete or asphalt paving above tank and the reference cell directly on concrete or not valid and will not be accepted.
D. 4°C D 1° (f	·····	. I)
	· impressed current system or	Comments:
Design settings: Amperes	Volts	Community.
Current readings: Amperes	SVolts	

Registratio	on No		Facility N	Name:				
CONTINUITY MEASUREMENTS (in millivolts)			STRUCTURE TO SOIL POTENTIAL MEASUREMENTS (All Potential Measurements in millivolts)					ENTS
Location Code*	Location Description	Voltage (mV)	Location Code*	Location Description	System Operating Potential	Rectifier Instant Off Potential	Rectifier Off Final Potential (Native)	Potential Shift
Tank#	Volume	<u> </u>	Product			Impressed	current syst	ems only
R			S			Impressed	current syst	Cilis Olliy
S			R					
S			R					
S			R					
S			R					
S			R					
S			R					
Tank#	Volume		Product			Impressed	current syst	ems only
R			S			Impressed	Current syst	Cins only
S			R					
S			R					
S			R					
S			R					
S			R					
S			R					
Tank#	Volume		Product			Impressed	current syst	ems only
R			S			Impressed	Turing System	- Cins Only
<u>S</u>			R					
S			R					
S			R					
S			R					
S			R					
S			R					
Tank #	Volume		Product			Impressed	current syst	ems only
R			S			improssed		
S			R					
S			R					
S			R					

SSS R COMMENTS

R

R

^{*} R = reference electrode location, S = structure contact

Registratio	on No		Facility	Name:				
M	CONTINUITY EASUREMENTS (in millivolts)	S	STRU		TIAL MEASUREMENTS ents in millivolts)			
Location Code*	Location Description	Voltage (mV)	Location Code*	Location Description	System Operating Potential	Rectifier Instant Off Potential	Rectifier Off Final Potential or Native	Potential Shift
Tank#	Volume		Product S			Impressed current systems only		
S			R					
S			RR					
SS			R R					
Tank#	Volume		Product S	_		Impressed current systems only		
SS			R R					
S			R					
SS			R					
STank#	Volume		RProduc	t		Impressed	current syst	ems only
R S			S R			Impressed	current syst	cms omy
S			RR					
SS			RR					
S	X7.1		R					
Tank #	Volume		Product S_			Impressed	current syst	ems only
S			R					

			<u> </u>					
S			R					
S			R					
S			R					
S			R					
S			R					
S			R					
COMMI	COMMENTS							
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